

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_RD2095_01_s_2013_14				
Action/Comments					
Inspector Comments: The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	17
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_RD2095_01_s_2013_17				
Action/Comments					
Inspector Comments: The LMA has a current flood fight training and a flood fighting plan.					

No Photos

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_RD2095_01_s_2013_19				
Action/Comments					
Inspector Comments: Flood fighting supplies available on-site at the warehouse.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Paradise Cut	Left	1.45	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	0.11	Rating **	A/W	Issue No.	134
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.770212 °	37.770212 °
				-121.325675 °	-121.325675 °
DWR ID	DWR_RD2095_01_s_2014_134				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : FA_2014_RD2095_322_134_20141001_00012.jpg



View of the vehicle access on the waterside levee slope.

LM Start	0.15	Rating **	C	Issue No.	32
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.769977 °	37.769977 °
				-121.325012 °	-121.325012 °
DWR ID	DWR_RD2095_01_s_2012_32				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: LMA is actively controlling the slope instability.					

No Photos

LM Start	0.16	Rating **	A	Issue No.	12
LM End	0.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.769889 °	37.769889 °
				-121.324793 °	-121.324793 °
DWR ID	DWR_RD2095_01_f_2014_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_RD2095_322_12_20141110_00017.jpg



View of acceptable vegetation maintenance.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	0.42	Rating **	A/W	Issue No.	13
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.766917 °	37.766917 °
				-121.322267 °	-121.322267 °
DWR ID	DWR_RD2095_01_s_2013_13				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: LMA is actively controlling the slope instability.					

Photo 1 of 1 : FA_2014_RD2095_322_13_20141001_00009.jpg



View of the repaired waterside levee slope.

LM Start	0.73	Rating **	M	Issue No.	1
LM End	0.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.763630 °	37.763630 °
				-121.319000 °	-121.319000 °
DWR ID					
Action/Comments					
Inspector Comments: 08/26/2014: No significant change observed. 08/28/2013: No significant change observed. 07/18/2012: No significant change observed. 09/02/2011: No significant change observed. 09/22/2010: No significant change observed. There is now considerable vegetation at the water line and along the lower berm slope. However, the erosion on the lower berm slope is still present and has not been corrected. 08/06/2010: Recommended for local maintenance issue, per CLRO. 07/29/2009: No major change since last visit; noticeable vegetation growth; erosion is on berm, but if left untreated, it will eventually erode into levee prism; site is recommended for annual assessment and monitoring of the site, per CLRO CES 2008 Report; Site # is the same as RM6.80,LM0.73; previously rated "U". 07/22/2008: Downstream of WPRR near siphon pipe & pump; sandy levee; visited by Jeff Van Gilder and LRO in 2008 for repair assessment; scouring downstream of RR crossing, possibly caused by eddy effects. 03/13/2007: Site visited on 03/13/2007. [2014 Site ID:RD2095U01RM6.74]					

Photo 1 of 1 : SJR2014_RD2095U01RM6.74_1.jpg



Direct view of the erosion upstream of Railroad bridge.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	0.86	Rating **	C	Issue No.	2
LM End	0.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.761960 °	37.761960 °
				-121.318140 °	-121.318140 °
DWR ID					
Action/Comments					
Inspector Comments: 08/26/2014: The erosion was repaired. 08/28/2013: No significant change observed. 07/18/2012: No significant change observed. 09/02/2011: No significant change observed. 09/22/2010: No significant change observed. Sloughing of the existing rip rap possibly due to a combination of steep slope and undesirable flood conditions. 08/06/2010: Recommended as local maintenance issue, per CLRO. 07/29/2009: No major change observed since last visit; near-vertical slope that has rip rap sloughing; site is recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM6.90,LM0.86; previously rated "U". 07/22/2008: Previous erosion site that is partially protected with concrete rubble; erosion scarp is adjacent to the sloughing rip rap. 03/13/2007: Site visited on 03/13/2007. [2014 Site ID:RD2095U01RM6.88]					

No Photos

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Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	0.03	Rating **	A/W	Issue No.	9
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.758986 °	37.758986 °
				-121.307854 °	-121.307854 °
DWR ID	DWR_RD2095_02_s_2013_9				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : FA_2014_RD2095_323_9_20141001_00005.jpg



View of the vehicle tire ruts on waterside levee slope.

LM Start	0.18	Rating **	C	Issue No.	10
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.757322 °	37.757322 °
				-121.306291 °	-121.306291 °
DWR ID	DWR_RD2095_02_s_2013_10				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	0.62	Rating **	A/W	Issue No.	6
LM End	0.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.751668 °	37.751668 °
				-121.304302 °	-121.304302 °
DWR ID	DWR_RD2095_02_s_2012_6				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2014_RD2095_323_6_20141001_00004.jpg



11/01/2011 Elderberry bush at landside toe.

*** Location**

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WS : Water Side
CR : Crown

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+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	0.98	Rating **	U	Issue No.	941
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749706 °	37.749706 °
				-121.299237 °	-121.299237 °
DWR ID	DWR_RD2095_02_s _ 2012_941				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense bush within 20' of crown on waterside slope.					

Photo 1 of 1 : FA_2014_RD2095_323_941_20141001_00013.jpg



Elderberry blocks visibility of levee slope.

LM Start	1.00	Rating **	A/W	Issue No.	940
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749629 °	37.749629 °
				-121.299040 °	-121.299040 °
DWR ID	DWR_RD2095_02_s _ 2012_940				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	1.10	Rating **	N	Issue No.	3
LM End	1.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.748184 °	37.748184 °
				-121.298995 °	-121.298995 °
DWR ID	DWR_RD2095_02_s _ 2012_3				
Action/Comments					
Tree stumps.					
Inspector Comments: 4 stumps					

Photo 1 of 1 : FA_2014_RD2095_323_3_20141110_00016.jpg



View of the tree stumps on the landside levee slope..

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CR : Crown

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+ Issue Type

Ma : Maintenance Deficiency
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	1.31	Rating **	N	Issue No.	8	
LM End	1.31	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			37.745343 °	37.745343 °	
				-121.297620 °	-121.297620 °	
DWR ID	DWR_RD2095_02_f_2012_8					
Action/Comments						
Tree stumps.						
Inspector Comments: Two tree stumps.						

No Photos

LM Start	1.35	Rating **	A/W	Issue No.	195
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.744746 °	37.744746 °
				-121.297695 °	-121.297695 °
DWR ID	DWR_RD2095_02_s_2014_195				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_RD2095_323_195_20141001_00011.jpg



View of the erosion on the waterside levee slope possibly eroding into the levee prism.

LM Start	1.54	Rating **	A/W	Issue No.	12
LM End	1.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.742828 °	37.742828 °
				-121.297532 °	-121.297532 °
DWR ID	DWR_RD2095_02_s_2012_12				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

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Unit No. 02 San Joaquin River	Left	3.41	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	1.77	Rating **	M	Issue No.	1
LM End	1.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.740196 °	37.740196 °
				-121.297662 °	-121.297662 °
DWR ID					

Action/Comments

Inspector Comments: 7/02/2014: No significant change observed.
 08/28/2013: No significant change observed.
 09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.
 The site was not visited by boat survey due to the limitation of navigable waterway.
 08/23/2011: No significant change observed.
 9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.
 9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2014 Site ID:RD2095U02RM60.62]

Photo 1 of 1 : SJR2014_RD2095U02RM60.62_1.jpg



View of the erosion.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/07/2014 11/07/2014	Maksim Khashchuk

LM Start	2.88	Rating **	C	Issue No.	15
LM End	2.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724633 °	37.724633 °
				-121.299732 °	-121.299732 °
DWR ID	DWR_RD2095_02_s _ 2014_15				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

No Photos

LM Start	2.89	Rating **	C	Issue No.	19
LM End	2.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724435 °	37.724435 °
				-121.299868 °	-121.299868 °
DWR ID	DWR_RD2095_02_s _ 2014_19				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

No Photos

LM Start	2.91	Rating **	C	Issue No.	196
LM End	2.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724246 °	37.724246 °
				-121.299997 °	-121.299997 °
DWR ID	DWR_RD2095_02_s _ 2014_196				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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